Sub. a2>

CLAIMS

1. A system for registration and analysis of data from a practised stage, and for generation of action programs in dependence of the performed analysis, comprising
- an input device (104, 105, 302), for entering result data for one or more predetermined parameters from one or several performed stages;
- a calculating device (106, 304), connected to the input device and devised to calculate, for each of said parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- a profile generation device (106, 308), connected to said calculation device, and devised to generate a characteristics profile by compiling said calculated characteristics measurement values; and **characterised by**
- a reference database (311) containing a pre-stored normal characteristics profile;
- a comparison device (312), connected to the profile generation device and the reference database, and devised to generate a comparison profile by comparing said characteristics profile with said pre-stored normal characteristics profile.

2. The system according to claim 1, wherein a device (318) for presentation of the comparison profile is devised to present the comparison profile graphically on a presentation unit (112).

3. A system according to claims 1 or 2, wherein the comparison device is devised to generate a comparison profile by applying a predetermined mathematical operation to the characteristics profile and the normal profile.

4. The system according to claim 3, wherein the comparison device is devised to generate a comparison profile in the form of a difference profile (804), by calculating the difference between characteristics measurement values for each parameter (806, 808, 809, 810, 812, 814) of the characteristics profile and the normal profile.

5. The system according to claim 2, wherein said device (318) for presentation of the comparison profile is devised to visualise, for each parameter (1406, 1408, 1409, 1410, 1412, 1414), a current characteristics measurement value (1415) and a normal characteristics measurement value (1416) in the same diagram.

6. The system according to claim 1, further comprising a selection device (314) connected to the profile generation device (308) and/or the comparison device (312) and/or a memory containing a profile data structure (310), and being devised to

Sub. a2) select, in dependence of said characteristics profile or comparison profile, a pre-stored action program.

7. The system according to claim 1, wherein said characteristics profile is a profile for a practiser of said stage, whereas said normal characteristics profile is a profile calculated from a group of practisers with common properties.

8. The system according to claim 7, wherein said normal characteristics profile is a profile for an average practiser within said group.

9. A system according to claim 6, wherein said practiser is a sports practiser, said stage being a game round of said sport, said parameter is a game parameter and said action program is a training model for improvement of the practiser's player properties within said sport.

Sub. a3) 10. The system according to claim 9, further comprising a device (302) arranged for entering player data for the sports practiser, and wherein said normal profile is based upon corresponding player data, for example age group, sex, handicap or ranking.

11. The system according to claim 10, wherein said device (318) for presentation of the comparison profile further is devised to visually present, on said presentation unit (112), the characteristics profile or the comparison profile in the form of a bar diagram (404, 504, 604, 704, 804, 1004, 1104, 1204) having one bar for each game parameter, where the bar height corresponds to the characteristics measurement value.

12. The system according to claim 10, wherein said device (318) for presentation of the comparison profile further is devised to visually present, on said presentation unit (112), the characteristics profile or the comparison profile in the form of a curve chart (904, 1404), where the level of the curve for each game parameter corresponds to the characteristics measurement value.

13. The system according to claim 10, adapted for the analysis of the player properties of a golfer, whereby the game parameters are various shot types and the charcteristics measurement is the average number of shots per round.

14. The system according to claim 10, adapted for the analysis of the player properties of a tennis player, whereby the game parameters are various shot types

and the charcteristics measurement is the percentage distribution of successful shots in relation to unsuccessful ones.

Sub. a4>

15. The system according to claim 10, further comprising a device (314) for maintaining a computer structure for storing of characteristics measurement values in a memory (110).

16. The system according to claim 10, further comprising a device (310) for maintaining a computer structure for storing of characteristics profiles in a memory (110).

17. A system for registration and analysis of data from a practised stage, and for generation of action programs in dependence of the performed analysis, comprising
- an input device (104, 105, 302), for entering result data for one or more predetermined parameters from one or several performed stages;
- a calculating device (106, 304), connected to the input device and devised to calculate, for each of said parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- a profile generation device (106, 308), connected to said calculation device, and devised to generate a characteristics profile by compiling said calculated characteristics measurement values; and **characterised in** that said characteristics profile is a profile for a practiser of said stage who achieved said result data, the system further comprising
- a reference database (311) containing a pre-stored normal characteristics profile calculated from results for a single practiser, or a group of practisers with common properties;
- a comparison device (312), connected to the profile generation device and the reference database, and devised to generate a comparison profile by comparing said characteristics profile with said pre-stored normal characteristics profile. (1+7)

18. A system for registration and analysis of data from a practised stage, and for generation of action programs in dependence of the performed analysis, comprising
- an input device (104, 105, 302), for entering result data for one or more predetermined parameters from one or several performed stages;
- a calculating device (106, 304), connected to the input device and devised to calculate, for each of said parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- a profile generation device (106, 308), connected to said calculation device, and devised to generate a characteristics profile by compiling said calculated char-

Sub. a4+7

acteristics measurement values; and **characterised by:**
- a reference database (311) containing a pre-stored normal characteristics profile;
- a comparison device (312), connected to the profile generation device and the reference database, and devised to generate a comparison profile by comparing said characteristics profile with said pre-stored normal characteristics profile;
- a selection device (314) connected to the profile generation device (308) and/or the comparison device (312) and/or a memory containing a profile data structure (310), and being devised to select, in dependence of said characteristics profile or comparison profile, a pre-stored action program. (1+6)

19. A system for registration and analysis of data from a practised stage, and for generation of action programs in dependence of the performed analysis, comprising
- an input device (104, 105, 302), for entering result data for one or more predetermined parameters from one or several performed stages;
- a calculating device (106, 304), connected to the input device and devised to calculate, for each of said parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- a profile generation device (106, 308), connected to said calculation device, and devised to generate a characteristics profile by compiling said calculated characteristics measurement values; and **characterised in** that said characteristics profile is a profile for a practiser of said stage who achieved said result data, the system further comprising:
- a reference database (311) containing a pre-stored normal characteristics profile calculated from results for a single practiser, or a group of practisers with common properties;
- a comparison device (312), connected to the profile generation device and the reference database, and devised to generate a comparison profile by comparing said practisers' characteristics profile with said pre-stored normal characteristics profile;
- a selection device (314) connected to the profile generation device (308) and/or the comparison device (312) and/or a memory containing a profile data structure (310), and being devised to select, in dependence of said characteristics profile or comparison profile, a pre-stored action program for improving the practisers' performance as revealed by said comparison device. (1+6+7)

20. A system for registration and analysis of data from a practised game round of a sport, and for generation of action programs in dependence of the performed analysis, **characterised by**
- an input device (104, 105, 302), for entering result data for one or more predetermined game parameters from one or several game rounds performed by a sports

sub. a47

practiser;
- a calculating device (106, 304), connected to the input device and devised to calculate, for each of said game parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- a profile generation device (106, 308), connected to said calculation device, and devised to generate a characteristics profile by compiling said calculated characteristics measurement values;
- a reference database (311) containing a pre-stored normal characteristics profile calculated from results for a single practiser of said sport, or a group of practisers with common properties;
- a comparison device (312), connected to the profile generation device and the reference database, and devised to generate a comparison profile by comparing said characteristics profile with said pre-stored normal characteristics profile. (1+7+part of claim 9)

21. A system for registration and analysis of data from a practised game round of a sport, and for generation of action programs in dependence of the performed analysis, **characterised by**
- an input device (104, 105, 302), for entering result data for one or more predetermined game parameters from one or several game rounds performed by a sports practiser;
- a calculating device (106, 304), connected to the input device and devised to calculate, for each of said game parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- a profile generation device (106, 308), connected to said calculation device, and devised to generate a characteristics profile by compiling said calculated characteristics measurement values;
- a reference database (311) containing a pre-stored normal characteristics profile calculated from results for a single practiser of said sport, or a group of practisers with common properties;
- a comparison device (312), connected to the profile generation device and the reference database, and devised to generate a comparison profile by comparing said characteristics profile with said pre-stored normal characteristics profile;
- a selection device (314) connected to the profile generation device (308) and/or the comparison device (312) and/or a memory containing a profile data structure (310), and being devised to select, in dependence of said characteristics profile or comparison profile, a pre-stored training model for improving the practisers' performance as revealed by said comparison device. (1+6+7+9)

Sub. a4)

22. A computer program product, for use together with a computer processing system (106), for registration and analysis of data from a practised stage, and for generation of action programs in dependence of the performed analysis, comprising
- a computer storage medium (111),

characterised by:
- means (302), stored on the storage medium, devised to control the computer processing system to receive the input of result data for one ore more predetermined parameters from one or several performed stages;
- calculating means (114, 304), stored on the storage medium, devised to control the computer processing system to calculate, for each of said parameters, a characteristics measurement value for a predetermined characteristics measurement, in dependence of said result data;
- profile generation means (114, 308), stored on the storage medium, devised to control the computer processing system to generate a characteristics profile by compiling said calculated characteristics measurement values;
- comparison means (312), stored on the storage medium, devised to control the computer processing system to generate a comparison profile by comparing said characteristics profile with a normal profile, pre-stored in a reference database (311).

23. The computer program product according to claim 17, wherein means (318), stored on the storage medium, for presentation of the comparison profile, is devised to present the comparison profile graphically on a presentation unit (112) connected to the computer processing system.

24. The computer program product according to claims 17 or 18, wherein the comparison means is devised to control the computer processing system to generate a comparison profile by applying a predetermined mathematical operation to the characteristics profile and the normal profile.

25. The computer program product according to claim 19, wherein the comparison means is devised to generate a comparison profile in the form of a difference profile (804), by calculating the difference between characteristics measurement values for each parameter (806, 808, 809, 810, 812, 814) of the characteristics profile and the normal profile, respectively.

26. The computer program product according to claims 17 or 18, wherein said means (318) for presentation of the comparison profile is devised to visualise, for each parameter (1406, 1408, 1409, 1410, 1412, 1414), a current characteristics

Sub. a4 measurement value and a normal characteristics measurement value in the same diagram (1404).

27. The computer program product according to claim 17, further comprising selection means (314), stored on the storage medium, devised to control the computer processing system to select, in dependence of said characteristics profile or comparison profile, a pre-stored action program.

28. The computer program product according to claim 17, wherein said characteristics profile is a profile for a practiser of said stage, whereas said normal characteristics profile is a profile calculated from a group of practisers with common properties.

29. The computer program product according to claim 23, wherein said normal profile is a profile for an average practiser within said group.

Sub. a5 30. The computer program product according to any one of the claims 17 - 24, wherein said practiser is a sports practiser, said stage is one game round of said sport, said parameter is a game parameter and said action program is a training model for improvement of the practiser's player properties within said sport.

31. The computer program product according to claim 25, further comprising means (302), stored on the storage medium, devised to control the computer processing system to receive input player data for the sports practiser; and wherein said normal profile is based upon corresponding player data, for example age group, sex, handicap or ranking.

32. The computer program product according to claim 25, wherein said means (318) for presentation of the comparison profile further is devised to visually present, on said presentation unit (112), the characteristics profile or the comparison profile in the form of a bar diagram (404, 504, 604, 704, 804, 1004, 1104, 1204) having one bar for each game parameter, where the bar height corresponds to the characteristics measurement value.

33. The computer program product according to claim 23, wherein said means (318) for presentation of the comparison profile further is devised to visually present, on said presentation unit (112), the characteristics profile or the comparison profile in the form of a curve chart (904, 1404), where the level of the curve for each game

Sub. a5 > parameter corresponds to the ~~characteristics measurement~~ value.

34. The computer program product according to claim 25, further being adapted for the analysis of the player properties of a golfer, whereby the game parameters are various shot types and the charcteristics measurement is the average number of shots per round.

35. The computer program product according to claim 25, adapted for the analysis of the player properties of a tennis player, whereby the game parameters are various shot types and the characteristics measurement is the percentage distribution of successful shots in relation to unsuccessful ones.

Sub. a6 > 36. The computer program product according to claim 25, further comprising means (314), stored on the storage medium, devised to control the computer processing system to maintain a computer structure for storing of characteristics measurement values in a memory (110).

37. The computer program product according to claim 25, further comprising means (310), stored on the storage medium, devised to control the computer processing system to maintain a computer structure for storing of characteristics profiles in a memory (110).

38. A method for registering and analysing data from a practised stage, and for generating action programs in dependence of the performed analysis, **characterised by** the steps of:
- registering result data (204) for one or more predetermined parameters from one or several performed stages;
- calculating (206), for each of said parameters, a characteristics measurement value for a predetermined characteristics measurement;
- generating (298) a characteristics profile by compiling said calculated characteristics measurement values;
- generating a comparison profile (214) by comparing said characteristics profile with a pre-stored normal profile.

39. The method according to claim 33, further comprising the step of graphically presenting (216) the comparison profile on a presentation unit connected to the computer processing system.

Sub. a6 > 40. The method according to claims 33 or 34, further comprising the step of generating a comparison profile by applying a predetermined mathematical operation to the characteristics profile and the normal profile.

41. The method according to claim 34, whereby a comparison profile in the form of a difference profile is generated by calculating the difference between characteristics measurement values for each parameter of the characteristics profile and the normal profile, respectively.

42. The method according to claim 34, further comprising the step of visualising, for each parameter, a current characteristics measurement value and a normal characteristics measurement value in the same diagram.

Sub. a7 > 43. The method according to claim 33, further comprising the step of selecting (220), in dependence of said characteristics profile or comparison profile, a prestored action program.

44. The method according to claim 38, further comprising the step of visually presenting (222) instructions and figures associated with the current action program.

45. The method according to claim 33, whereby said characteristics profile is a profile for a practiser of said stage, whereas said normal characteristics profile is a profile calculated from a group of practisers with common properties.

46. The method according to claim 34, whereby said normal profile is a profile for an average practiser within said group.

Sub. a8 > 47. The method according to any one of claims 33 - 41, whereby said practiser is a sports practiser, said stage is one game round of said sport, said parameter is a game parameter and said action program is a training model for improvement of the practiser's player properties within said sport.

48. The method according to claim 42, further comprising the step of registering player data (204) for the sports practiser; and whereby said normal profile is based upon corresponding player data, for example age group, sex, handicap or ranking.

49. The method according to claim 42, further comprising the step of visually presenting (210, 216) the characteristics profile or the comparison profile in the form of a bar diagram having one bar for each game parameter, where the bar

Sub. a8)

height corresponds to the characteristics measurement value.

50. The method according to claim 42, further comprising the step of visually presenting (210, 216) the characteristics profile or the comparison profile in the form of a curve chart (904, 1404), where the level of the curve for each game parameter corresponds to the characteristics measurement value.

51. The method according to claim 42, adapted for the analysis of the player properties of a golfer, whereby the game parameters are various shot types and the characteristics measurement is the average number of shots per round.

52. The method according to claim 42, adapted for the analysis of the player properties of a tennis player, whereby the game parameters are various shot types and the characteristics measurement is the percentage distribution of successful shots in relation to unsuccessful ones.